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Public Consultation Report

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

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Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Public Consultation Report

March 2000

PROPOSED CIRCUIT 2L39 AND 2L40 UNDERGROUND CABLE REPLACEMENT BETWEEN NEWELL SUBSTATION AND HILL TERMINAL STATION PUBLIC CONSULTATION REPORT

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SECTION A - PURPOSE AND OBJECTIVES

The purpose of the public consultation program for the Circuit 2L39 and 2L40 Cable Replacement Project was to incorporate public and community values in to B.C. Hydro's decision-making process, and to facilitate the approval of the project. The following objectives were set to meet this goal:

1. Provide stakeholders with information on the project.
2. Identify stakeholder values in relation to the project.
3. Identify and respond to issues of concern to stakeholders.
4. Develop informed consent or support for a preferred option that meets the needs of the community and B.C. Hydro's mandate to provide safe and reliable electricity.

After initial meetings with key stakeholders, it was apparent that of five potential site options considered for the new Hill Avenue Terminal Station the preferred option would be one that located the new terminal station just slightly east of the existing location. Preference for the selected option was confirmed at subsequent meetings with the City of Burnaby, the Greater Vancouver Regional District, the Ministry of Transportation and Highways and the Ministry of Environment, Lands and Parks, and was further supported by the absence of any objections or significant concerns about the project. Apart from final meetings with key stakeholders, to finalize project details, no outstanding concerns have been identified.

SECTION B - BACKGROUND

Circuits 2L39 and 2L40 are comprised of overhead wood-pole and lattice tower steel transmission lines until they get to the Hill Avenue Terminal Station area where they change to underground cables, for a distance of approximately 3.3 kilometres to Newell Substation. The underground cables, which were installed in the 1950s, are severely deteriorated and their replacement is essential to maintain system reliability.

The Hill Avenue Terminal Station is located in a seismically unstable area and must be upgraded to meet the latest B.C. Hydro Seismic Performance Criteria for new construction. Five potential sites for relocation of the terminal station were identified and evaluated during the initial consultation process. A new site, located immediately east of the existing terminal of Circuit 2L39, has been selected after consultation with key stakeholders.

SECTION C - CONSULTATION SCOPE

Consultation on this project covered many facets including:

- Justification
- Location and Options
- Environmental Protection and Mitigation
- Construction Impact Management

The need for the cable replacement and the relocation of the Hill Avenue Terminal Station is clearly demonstrated, as the continued operation of the deteriorated cables is a risk to the reliability of the supply of electricity to B.C. Hydro's customers, and to the surrounding environment

The location of the new Hill Avenue Terminal Station site was an important issue in the early consultation process. Site selection also focused on the environmental impact analysis, and initiated the environmental mitigation and protection consultative process. Alternative routes for the new cables were not considered as a part of the consultation process since it is intended to use the existing cable ducts. The use of the existing ductbanks clearly minimizes aesthetic, environmental and construction impacts on the community, park users and other stakeholders.

Once the preferred site was determined, consultation focused primarily on managing the environmental and construction impacts.

SECTION D - CONSULTATION PROCESS

D.1 DESCRIPTION

Consultation for the project began in late 1997 and was undertaken in several stages. The initial stage identified a potential site for the new Hill Avenue Terminal Station through discussion with representatives from the Greater Vancouver Regional District (GVRD), the City of Burnaby (Burnaby) and the Ministry of Transportation and Highways (MOTH). These discussions incorporated environmental concerns, use of the existing right-of-way and acquisition of a new easement into B.C. Hydro's planning process. These discussions also helped to identify affected interest groups in an attempt to incorporate their values into the site selection. As part of the initial consultation process the GVRD also discussed the project with the Burnaby Lake Partnership Association (BLPA) and provided additional feedback to B.C. Hydro on their behalf.

General input, from the groups identified above, indicated that the preferred option would be one that minimized aesthetic impacts (e.g. overhead wires), minimized environmental impacts and was least disruptive to access and the recreational use of the right-of-way. Based on the input of these groups a preferred site option was identified.

In July 1998, B.C. Hydro placed information advertisements in local newspapers (the "Burnaby Now" and the "Burnaby News Leader") inviting interested parties to attend an Open House or to contact B.C. Hydro with comments about the project. These consultation activities were undertaken to get further input into the project and confirmation of the preferred option for the Hill Avenue Terminal Station. Attendance at the Open House was very poor and B.C. Hydro received no calls as a result of their advertising.

During the fall and winter of 1999, Burnaby, the GVRD and the MOTH were periodically consulted and additional meetings with these stakeholders and recreational users were held in January and February 2000 to confirm that the proposed mitigation plans and strategies addressed the concerns raised.

If necessary, a second Open House would be held during the spring of 2000 to review final plans with the public. Regular communication of project activities will occur throughout the project through letters, newsletters, news briefs and advertising, complete with contact names and phone numbers should any concerns emerge during the construction phase. Ongoing liaison with the BLPA will be maintained throughout the construction period to ensure that any issues that emerge can be resolved expeditiously.

Initial consultation encompassed:

- A series of meetings with MOTH, MOELP, the Department of Fisheries and Oceans (DFO), the City of Burnaby and the GVRD Parks Central Area.
- Meetings with BLPA, and Burnaby Horseman's Association.
- Information advertisements were placed in local Burnaby papers on July 22nd and 26th, 1998, inviting the public to attend B.C. Hydro's Open House.
- Open House held on July 27th, 1998 at Burnaby lake Sports Complex.
- Distribution of information sheets on July 22nd, 1998 to stakeholders and neighbouring property owners.

Additional consultation undertaken to date has included:

- Letters and information sheets sent to stakeholders and neighbouring property owners in October 1999.
- Ongoing meetings and correspondence with MOTH, GVRD, and the City of Burnaby.
- Meeting held on January 13th, 2000 with the Burnaby Horseman's Association.
- Meeting held with the GVRD on February 17th, 2000.
- Meeting held with the City of Burnaby on February 23rd, 2000.
- Meeting held with BLPA on March 9th, 2000.

Future consultation planned:

- Meetings to be held with affected stakeholders prior to each stage of construction to review proposed schedule, signage and communication requirements. Stakeholder input will be included in the construction and environmental management plans.
- Meetings to be held with affected stakeholders to review site restoration plans, landscaping and vegetation plans.

D.2 STAKEHOLDERS

Key stakeholders for this project were identified as:

- Ministry of Transportation and Highways
- Ministry of Environment Lands and Parks
- Department of Fisheries and Oceans Canada
- City of Burnaby
- Greater Vancouver Regional District – Parks Branch
- Greater Vancouver Water District
- Burnaby Lake Horseman's Association
- Burnaby Lake Partnership Society
- Residents of Glencarin Drive
- Adjacent property owners (along the cable route between the Hill Avenue Terminal Station and Newell Substation).
- Residents of Burnaby

See Appendix A for a complete list of stakeholders.

D.3 TIMELINE

Table 1 provides a chronological record of consultation for the project.

D.4 ISSUES AND CONCERNS

The following issues and concerns, related to design and construction, were raised as part of the consultation process:

- Aesthetics – minimize construction of new overhead facilities, minimize footprint of the new Hill Avenue Terminal Station, and find opportunities to provide visual screening.
- Environmental impacts – minimize both short and long-term impacts on the environment. Key concerns are related to impacts on Robert Burnaby Creek, Robert Burnaby Park and Burnaby Lake. The Burnaby Lake Bog at the eastern end of the lake was identified as a sensitive area needing protection.
- Access – this issue emerged to be the most problematic with environmental concerns regarding access road upgrading and highway safety being the key issues.
- Recreation – disruption of Burnaby Lake Trail System during construction. Potential impacts on horseback riders were identified as the key issue of concern as joggers and hikers can be diverted on to a lower route. It was noted that due to soft ground and boardwalks the City of Burnaby prohibits horseback riders from using the lower, alternative trail.

D.5 RESOLUTION OF ISSUES

The following issues, related to aesthetics, environment and access, have been resolved as a result of the consultation undertaken thes far:

- The preferred option for the new Hill Avenue Terminal Station was selected to avoid adding additional overhead facilities and to allow for the construction of a compact terminal station, which would be screened by vegetation.
- Impacts on creeks crossing the proposed access road will be minimized by the installation of longer culverts, and the amount of the time required for creek de-watering. Long-term effects of new culverts are an improvement for fish habitat.
- Studies of potential effects to the Burnaby Lake Bog have revealed no impact.
- Burnaby Horseman's Association accepts B.C. Hydro's requirement for closure or re-routing of the horse-trail in Burnaby Lake Park during the construction period.
- An alternate trail, around the new Hill Avenue Terminal Station will be constructed.
- MOTH has agreed to allow access for heavy equipment from the Trans Canada Highway based on early morning hours (midnight to 5:00 a.m.).

D.6 ITEMS TO BE RESOLVED

Final meetings and correspondence with the GVRD and the City of Burnaby are underway and are expected to satisfactorily address outstanding questions and/or concerns. It is recognized that additional issues may arise once the detailed design is completed and communicated to the stakeholders and the public. B.C. Hydro will work with the affected groups to answer any questions or resolve any issues at that time.

SECTION E - CONCLUSION

The public consultation process undertaken by B.C. Hydro has met with limited public interest. Of those issues raised by the project stakeholders, there are none that have not or cannot be resolved or mitigated. Any outstanding issues are under resolution with the respective stakeholder groups or will be addressed prior to the commencement of construction. Communication updates will continue to be provided throughout the project, both directly with the groups with specific interests, and more generally through press releases, letters to residents, project newsletters, and site specific signage. Contact telephone numbers will be provided on all material, released by B.C. Hydro, such that any new issues or questions that may emerge can be resolved quickly.

Table 1 - Consultation Summary

Date	Correspondence / Meetings	Discussion/ Key Issues
November 25, 1997	Meeting with the City of Burnaby	Environment - fish and vegetation, recreation and aesthetics.
December 3, 1997	Meeting with Ministry of Transportation & Highways (MOTH)	Access to the Hill Avenue Terminal Station Site.
December 9, 1997	Meeting with GVRD Parks and Engineering	Recreation and aesthetics.
January 1998	Meeting with City of Burnaby	Easement requirements in Robert Burnaby Park. Access concerns.
January 28, 1998	Letter from the Greater Vancouver Regional District (GVRD)	Minimizing environmental, aesthetic and recreational impacts.
January 30, 1998	Letter from the City of Burnaby	Comments on preferred options, and recommendations on the Hill Avenue Terminal site.
February 9, 1998	Meeting with Burnaby Lake Partnership Society	GVRD provided information to park users and in particular the Burnaby Horseman's Association.
March 10, 1998	Site meeting with MOTH	Existing access of Trans Canada Highway and possible improvements.
June 18, 1998	Stakeholder meeting with the Ministry Environment, Lands and Parks (MOELP), GVRD, MOTH and City of Burnaby	Final review of the new Hill Avenue Terminal Station site. Agreement reached on preferred site.
July 19 and 22, 1998	Advertisement - Burnaby Now	Information regarding project and invitation to Open House.
July 22 and 26, 1998	Advertisement - Burnaby News Leader	Information regarding project and invitation to Open House.
Mid July 1998	Notice of Open House	Distributed information regarding the project and invitation to Open House through Sport Complex and by hand to adjacent property owners/ residents.
July 27, 1998	Open House – Burnaby Lake Sports Complex	To discuss access options, social and environmental management plans, and minimizing construction impacts, minimal attendance.

Date	Correspondence / Meetings	Discussion/ Key Issues
December 9, 1998	Letter from City of Burnaby	Concerns regarding various project impacts.
December 29, 1998	Letter to City of Burnaby	Explanation of project delay. Comments/concerns will be addressed when project approved.
October 21, 1999	Letter / project Information sheet sent to all adjacent property owners	Advising of engineering survey work.
October 25, 1999	Letter /project Information sheet sent to all adjacent property owners / stakeholders	Advising of project proceeding.
November 12, 1999	Letter from the GVRD Operations & Maintenance Department.	Concerns with GVRD Water Main in proximity of Hill Avenue Terminal Station.
November 24, 1999	Letter from City of Burnaby City Clerk with report prepared for the City Manager outlining concerns with project. Letter copied with report to the Director of Engineering, the Director of Parks, the Acting City Solicitor, and to the GVRD Parks	Response sent in B.C. Hydro's letter dated January 21st, 2000.
January 13, 2000	Meeting with Burnaby Horseman's Association Executive	Impacts of the construction project on the use of horseback riding trail. Agreement reached on specific closures.
January 21, 2000	Letters to the City of Burnaby and GVRD Parks	Responses for all concerns raised by the City of Burnaby and GVRD.
February 17, 2000	Meeting with GVRD	Resolution of outstanding questions regarding construction and access. GVRD and park users will be updated prior to construction.
February 23, 2000	Meeting with the City of Burnaby	Resolution of outstanding questions regarding construction and access.
March 9, 2000	Meeting with Burnaby Lake Park Association	To obtain input on access and restoration program.
Planned for Spring 2000	Newsletter, Advertisement, Open House	To further review access and construction plans, discuss outstanding issues/concerns raised and their resolution.

APPENDIX A – STAKEHOLDER LISTS

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Government				
City of Burnaby	Parks Recreation & Cultural Services	4946 Canada Way Suite 101 Burnaby, B.C.	V5G 4H7	
City of Burnaby		4949 Canada Way Burnaby, B.C.	IV5G 1M2	
Boss, Mike , P. Eng.	Senior Engineer, Water Supply Div. GVRD Operations & Maintenance Dept.	4330 Kingsway, 14th Flr Burnaby	V5H 4G8	432-6450
Farquhar, Brian	Parks Planner-Central Area Parks GVRD	4330 Kingsway Burnaby	V5H 4G8	520-6442
Hankin, Rick	Regional Manager GVRD	4330 Kingsway Burnaby	V5H 4G8	432-6350
Ministry of Highways	Ministry of Highways South Coast Regional Office	7818 6th Street Burnaby	V3N 4N8	660-8817
Morse, John	Manager Water & Construction GVRD	4330 Kingsway Burnaby	V5H 4G8	432-6200
Nanson, Dave	Dept. of Fisheries & Oceans	610 Derwent Way Annacis Island	V3M 5P8	666-8266
Puil, George	Chair GVRD	4330 Kingsway Burnaby	V5H 4G8	432-6200
Santori, Donna	Registrar, Environmental Assessment Project Registry	836 Yates Street Victoria	V8V 1X4	356-7442
Scambles, Rick	City of Burnaby Parks Maintenance	4946 Canada Way Burnaby	V5G 4H7	

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station
Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Sinclair, Craig	Director of Engineering City of Burnaby	4949 Canada Way Burnaby	V5G 1M2	294-7290
Stoddart, Erin	Ministry of Environment, Lands and Parks	10470 152nd Street Surrey	V3R 0Y3	528-5374

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station
Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Property Owners				
Cameron, Robert D & Rivier, Carol Jeanne		6668 Chesire Court Burnaby, B.C.	V5E 4J2	
Chen, Shang-Wu & Chang, Mei-Yu		7920 Berkley Street Burnaby, B.C.	V5E 4G5	520-7393
Bates, Ronald & Lust, Rhea L.R.		6259 Dufferin Avenue Burnaby, B.C.	V5H 3S9	434-6120
Andre, Silvia & Cabrita Roy		6969 McBride Street Burnaby, B.C.	V5E 1R1	540-1724
Law, Chan & Ngan, Suk Lin		6549 Malvern Avenue Burnaby, B.C.	V5E 3G3	525-8089
Leung, Wing Sang & Ting, Yue Fong		6560 Innsmoor Place Burnaby, B.C.	V5E 4G3	
District 41, Board of School Trustees		5325 Kincaid Street Burnaby	V5G 1W2	
Chamberland, Leo		6671 Cheshire Court Burnaby	V5E 4J2	522-7520
Cheong, Poh Chun		4584 63rd Street Delta	V4K 4T6	
Cherry, Ian Barbara & Patricia		7665 Imperial Street Burnaby	V5E 1P3	
Han, Foo Kwang	Canbru Developments Inc.	2771 West 37th Avenue Vancouver	V6N 2T5	263-3815
Hayek, Saad J.		6667 Cheshire Court Burnaby	V5E 4J2	

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Hillstrom, Dorothy J.		8040 Leeds Court Burnaby	V5E 4G5	522-4051
Gsuai, Fu-Min & Yu-Hui		6561 Albery Place Burnaby	V5E 4G3	
Wen, David Huei & Hung, Ying Wang		7930 Berkley Street Burnaby	V5E 4G5	517-1892
Intercare Holdings Inc.	Intrercare Holdings	402-3rd Avenue Burnaby	V3L 1L7	521-6896
Kaufman, Donald H.		4930 Portland Street Burnaby	V5J 2P0	
Lee, Wah Lam	Lee & Chan Enerprises Co. Ltd.	2756 Coleridge Street Vancouver	V5S 3A3	431-8365
Leung, Daniel & Monica		7660 Berkley Street Burnaby	V5E 4A7	
Li, Xiu Lan		6550 Leibly Avenue Burnaby	V5E 3E3	
Liao, Dong F.		7268 Wiltshire Street	V6P 5H5	263-7192
Loconte, Raffaella & Rosa		4298 Sophia Street Vancouver	V5E 1J2	298-1010
Lusuegro, Vincente & Aurelia		6822 Balmoral Street Burnaby	V5E 1J3	
Manly, John P.		7630 Berkley Street Burnaby	V5E 4A7	
North, Patricia R.		6995 McBride Street Burnaby	V5E 1R1	540-1724
Osborne, Judith		6880 Imperial Street Burnaby	V5E 1N2	

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station
Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Pang, Shirley Wing Yee		315-5835 Hampton Place Vancouver	V6T 2G2	224-2686
Perri, Jack A.		5745 Cedarwood Street Burnaby	V5G 2L7	
Poon, Noreen & Tat		7214 11th Avenue Burnaby	V3N 2M7	433-5700
Singh, Gurmail & Puni, Satwant Kaur		7657 Gilley Avenue Burnaby	V5J 4X9	434-0018
Salcedo, Donato L.		5084 Inman Avenue Burnaby	V5G 2Y6	430-2763
Sangha, Jasbir		7923 16th Avenue Burnaby	V3N 1R4	
Schmaltz, Wilhelm		C/O Evergreen Baptist Home White Rock	V4B 3T2	
Schmalz, Willy		C/O 8311 Sidaway Road Richmond	V6W 1G7	
Schulz, Erich		937 East 53rd Avenue Vancouver	V5X 1J7	331-9363
Shalin, Oleksandr & Vira		6886 Elwell Street Burnaby	V5E 1K1	
Shelby, Frederick		8311 Sidaway Road Richmond	V6W 1G7	
Spagnol, Angelo		1203-220 Eleventh Street New Westminster	V3M 6N9	
Tzeng, Grace & Paul		6535 Elwell Street Burnaby	V5E 1J9	431-0722

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
General Public				
430742 BC Ltd		220-12551 Vickers Way Richmond	V6V 1J2	
Ackroyd, Catherine	Program Director Rogers Cable Community Channel 4	Box 151 4463 Central Blvd Burnaby	V5H 4M2	430-5550
Avery, Margaret Edna		6826 Balmoral Street Burnaby	V5E 1J3	525-8080
Bansal, Ram & Sunita		7637 Imperial Street Burnaby	V5E 1P3	
Barnes, Vicki		7660 Berkley Street Burnaby	V5E 4A7	522-0194
Beattie, David	Editor	6469 Kingsway Burnaby	V5E 1E1	438-6397
Benevoli, Guiseppe & Laura M.		7587 Imperial Street Burnaby	V5E 1P3	
Burton, William & Audrey		7653 Imperial Street Burnaby	V5E 1P3	
CJSF (93.9 cable)		SFU Burnaby	V5A 1S6	
Chang, Mei-Yu		7920 Berkley Street Burnaby	V5E 4G5	520-7393
Ching, Chung		6560 Innsmoor Place Burnaby	V5E 4G3	
Chou, Chen		7918 Berkley Street Burnaby	V5E 4G5	

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Clement, Sherrie L.		7541 Imperial Street Burnaby	V5E 1P3	526-8857
De Gobbi, Orfeo & Ryan		6590 Canada Way Burnaby	V5E 3P7	
Doraziom, Maria		6551 Albery Place Burnaby	V5E 4G3	522-9039
Foon, Ivan & Fung, Frank Kai Chan		7060 Halligan Street Burnaby	V5E 1R6	
Franco, Gildeliza & Melido		6824 Balmoral Street Burnaby	V5E 1J3	517-0666
Freely, Pierre & Dupuis, Linda	Geologists			892-2303
Gerding, Barry	Bauman Engineering Coho Enhancement Committee Editor, Burnaby Now	Squamish #205A 3430 Brighton Av Burnaby	V5A 3H4	444-3451
Guy, Dianne		7650 Berkley Street Burnaby	V5E 4A7	
Ho, Gilbert & Magadina		7629 Imperial Street Burnaby	V5E 1P3	
Howe, Mun & Chow, Quen Woo		7613 Imperial Street Burnaby	V5E 1P3	
Hume, Kenneth & Sandra Lee		6549 Leibly Avenue Burnaby	V5E 3E2	524-8403
Jamal, Parin		6632 Canada Way Burnaby	V5E 3P7	685-1101
Kai, Albert & Hui, Pui		6821 Griffiths Avenue Burnaby	V5E 2X6	526-1772

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Karim, Pitu & Sultan	7640 Berkley Street Burnaby	V5E 4A7	522-4016
Keay, Jane	8050 Leeds Court Burnaby	V5E 4G5	521-7892
Kelley, Joe	6816 Balmoral Street Burnaby	V5E 1J3	
Kirk, Dave	7007 McBride Street Burnaby	V5E 1R1	
Lafortune, Germain & Lyne	7621 Imperial Street Burnaby	V5E 1P3	
Law, Chan & Suk Ngan	6549 Malvern Avenue Burnaby	V5E 3X8	
Leong, Chung Oy & Chung, Yim	6561 Albery Place Burnaby	V5E 4G3	525-37873
Lusuegro, Vincente J.	6822 Balmoral Street Burnaby	V5E 1J3	
Manly, Pauline	7645 Imperial Street Burnaby	V5E 1P3	
Mirano, Felixberto & Josefina	6818 Balmoral Street Burnaby	V5E 1J3	
Moon, Bih & Dao	6886 Elwell Street Burnaby	V5E 1K1	327-8885
Murdoch, Leonard & Linda	6550 Leibly Avenue Burnaby	V5E 3E3	521-6731
Nam, Cha Soon & Yong Am	6551 Innsmoor Place Burnaby	V5E 4G3	521-1880
Ozkan, Ibrahim	6820 Balmoral Burnaby	V5E 1J3	524-1205
Pacino, Guiseppe & Ciambrelli, Lucia	7579 Imperial Street Burnaby	V5E 1P3	

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Panagiotopoulos, Nick & Irene		7661 Imperial Street Burnaby	V5E 1P3	
Peak, The		c/o The Peak Trailers Simon Fraser University	V5A 1s6	291-3597
Pidzarko, Lyle & Lynda		6550 Albery Place Burnaby	V5E 4G2	525-8771
Skinner, Kyle I.		6553 Walker Avenue Burnaby	V5E 3B7	
So, Lina Pui I		7067 Burford Street Burnaby	V5E 1S3	
Stojakovic, Marija & Stanoje		6777 Balmoral Street Burnaby Burnaby	V5E 1J2	
Tome, Ines & Jose	Vancouver Management Ltd.	205-2025 West 42nd St. Burnaby	V6N 2B5	263-1766
Tsai, Yi-Wen & Yu-Hsiu Lin		6560 Albery Place Burnaby	V5E 4G2	525-4808
Tsang, Paul	Editor, Sing Tao	549 Main Street Vancouver	V6A 2V1	683-6830
Wang, Henry C.		7409 Morley Drive Burnaby	V5E 3X8	526-6538
Wilson, Daniel K.		6550 Walker Avenue Burnaby	V5E 3B8	524-8657
Wong, Kam		7671 Imperial Street Burnaby	V5E 1P3	
Wong, Kenneth		2093 E. 27th Avenue Burnaby	V5N 2W7	
Wong, Loretta Chow & Fook Ting		2093 West 27th Avenue Vancouver	V5N 2W7	879-5601

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Wong, Wayne W.S. & Joyce G.T.		7673 Imperial Street Burnaby	V5E 1P3	522-0662
Wright, Laresa		6550 Innsmoor Place Burnaby	V5E 4G3	521-2669
Yeh, Daniel & Jenny		7628 Berkley Street Burnaby	V5E 4A7	522-9198
Zapf, Ria	Director, West Coast Cablevision Channel 4	6665 East Hastings St. Burnaby	V5B 1S4	291-6691

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station
Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Non Government				
Burnaby Lake Rugby Clubhouse		Burnaby 3760 Sperling Avenue	V5B 4X5	299-0122
Burnaby Tennis Club		Burnaby 3890 Kensington Avenue	V5B 4V8	291-0916
Croft, Jim	Manager, CG Brown Memorial Pool	Burnaby 3702 Kensington	V5B 4Z6	299-9374
Damani, Karim	Deer Lake Streamkeepers (13th Southview Scout Group)	Burnaby 3552 Chickadee Place Burnaby	V5S 4E1	432-6180
Gau, Michael	President Burnaby Board of Trade	181-4800 Kingsway Burnaby	V5H 4J2	
Gunn, Bob	Chair Burnaby Lake Park Association	9146 Avalon Avenue Burnaby	V3N 4G8	
Harris, Lana	Manager Bill Copeland Sports Centre	3676 Kensington Road Burnaby	V5B 4Z6	291-1261

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Jaco, Shirley	Burnaby Horseman's Association	3946 Spruce Street Burnaby	V5G 1Y1	433-5185
Karmitsa, Harry	Lubbocks Creek Habitat Enhancement Committee	Box 338 6540 East Hastings St. Burnaby	V5B 4Z5	540-4649
Kvenich, Nick	Eagle Creek Streamkeepers	2948 Phillips Avenue Burnaby	V5A 2W5	420-5651
Rudolph, Elmer	Burnaby Streamkeepers/ Sapperton Fish & Game	1809 8th Avenue Burnaby	V3M 2S9	521-3346
Smith, Laurie	BCIT Burnaby Lake System Project	3700 Willingdon Avenue Burnaby	V5G 3H2	432-8651
Wildlife Rescue Association	Wildlife Rescue Association	5216 Glencarin Drive Burnaby	V5B 3C1	526-7275

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Elected Officials				
Drummond, Doug	Mayor of city of Burnaby	4949 Canada Way Burnaby	V5G 1M2	294-7644
Randall, Fred	MLA Burnaby Edmonds	7671 Edmonds Street Burnaby	V3N 1B6	521-3737
Sawicki, Joan	MLA Burnaby - Willingdon	4732 Imperial Street Burnaby	V5J 1C2	437-5700

Proposed Circuit 2L39 and 2L40 Underground Cable Replacement between Newell Substation and Hill Avenue Terminal Station

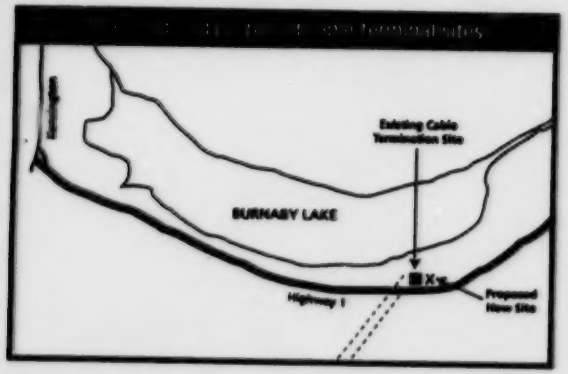
Stakeholder Lists

Last Name	Affiliation	Address	Postal Code	Telephone
Local Resident				
McNiven, Debra		5080 Glencarin Drive Burnaby	V5B 3C1	540-0899
McNiven, Raymond A.		5110 Glencarin Drive Burnaby	V5B 3C1	526-5877
Rutherford, Arlene		5180 Glencarin Drive Burnaby	V5B 3C1	521-1069

APPENDIX B – COMMUNICATION MATERIAL

We're improving reliability in central Burnaby

BC Hydro is planning to replace two 230 kV underground cable circuits between Newell Substation at Kingsway & Griffiths and the Hill Ave. Cable Terminal Stations located east of Hill Ave. between Hwy. No.1 and Burnaby Lake. This cable system was installed in 1957 and needs to be upgraded to maintain service reliability for our customers in central Burnaby.



The project is planned in stages between 1999 and 2003 and will involve:

- Upgrading existing access to the site, either along the north side of Hwy 1, from Glencarin Dr. to the Hill Ave. Cable Terminal site, or if feasible directly off of Hwy. 1. This work is tentatively scheduled for late summer 1999.
- Removing the existing cable terminal stations and replacing them with more compact structures, immediately east of the existing ones. New cables will then be installed in the existing underground ductbanks to Newell Substation, except for the crossing of the highway, where new ducts will be installed by directional drilling. Access for construction purposes will be required along the existing ductbank south of the highway to Newell Substation. The first circuit is currently scheduled for replacement in summer 2000, and the second to follow in summer 2003.

The new cable terminal sites will be constructed with better earthquake and environmental protection. This work will also give BC Hydro the opportunity to improve the appearance of the site.

We are currently working with the City of Burnaby, Ministry of the Environment, Lands and Parks, Ministry of Transportation and Highways, and the GVRD to address the project issues, and are seeking public input on the social and environmental aspects of the project.

Prior to the commencement of the work BC Hydro will prepare environmental and construction management plans to ensure that all environmental concerns have been addressed.

Consultation sessions with the public and key users of Burnaby Lake Park area will be held over the next few months. We will be making every effort to minimize construction impacts and disruptions to the community and recreational users of Burnaby Lake Park while this work is in progress.

If you have any questions, or would like more information, please: call Jane Newlands, BC Hydro Community Relations Manager, at 528-7985 or attend our Public Information Open House to be held on July 27, 1998, from 4 - 8 pm in the Bill Copeland Recreation Centre lobby, 3676 Kensington Ave., Burnaby.

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www.bchydro.com

July 19 and 22, 1998: Advertisement - Burnaby Now

July 22 and 26, 1998: Advertisement - Burnaby News Leader

We're Improving Reliability in Central Burnaby

BC Hydro is planning to replace two 230 kV underground cable circuits between Newell Substation at Kingsway & Griffiths and the Hill Ave. Cable Terminal Stations located east of Hill Ave. between Hwy. No.1 and Burnaby Lake.

This cable system was installed in ;7 and needs to be upgraded to maintain service reliability for our customers in central Burnaby.

We are working with the City of Burnaby, Ministry of the Environment, Lands and Parks, Ministry of Transportation and Highways, and the Greater Vancouver Regional District (GVRD) on this project and currently, to select the most suitable access route to the Hill Ave. site for construction purposes.

This is the first consultation session with local residents and users of Burnaby Lake Park. We will be using your feedback during the planning of this project to minimize construction impacts and disruptions to the community and recreational users of Burnaby Lake Park.

The service reliability and environmental reasons for replacing these circuits, include:

Service Reliability:

- cables are 41 years old and beyond their design life expectancy
- existing Hill Ave. Terminal Stations are located in a swampy area with minimal stability to resist earthquakes
- some of the cable terminal attachments or potheads (where the cables connect to the overhead lines) are leaning

Environmental:

- protective cable covering has deteriorated, causing sheath corrosion and oil leaks (the area is monitored regularly to detect oil leaks)
- the oil containment facilities will be upgraded as part of this project

The project is planned in stages between 1999 and 2003 and will involve:

Project Planning and Approval:

August 1998:
Choosing access route to Hill Ave. site that has the least environmental, social and recreational impacts.

December 1998/9:
...ceeding with financial approval (by BC Hydro).

Winter 1999:
Consulting with the public in preparation for detailed environmental and construction planning.

Spring & Summer 1999:
Preparing an environmental and construction management plan.

Construction - Phase 1 (1st circuit):

August & September 1999:
Upgrading existing access to the Hill Ave. site.

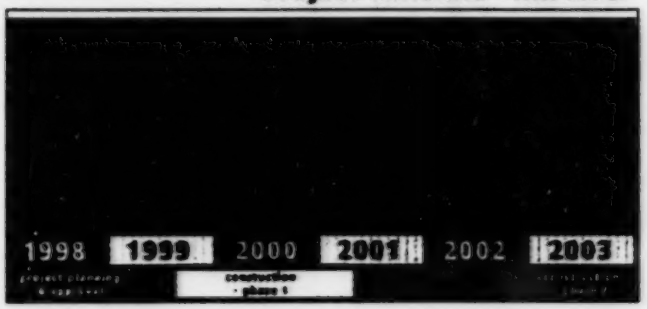
February - September 2000:
Constructing new cable terminal stations and enclosures; and installing new cables for the first circuit.

October 2000 - May 2001:
Cleaning up and restoring the Hill Ave. site.

Construction - Phase 2 (2nd circuit):

2003:
Replacing cables for the second circuit between the south side of the freeway and the Newell Substation.

Project Timeline - Hill Ave.



BC Hydro

Relocation of Hill Ave. Cable Terminal Stations

Description of Proposed Work

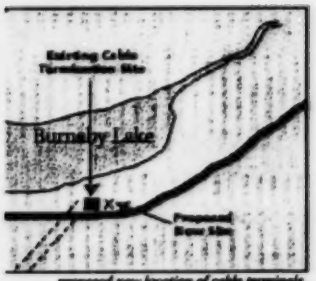
The existing 230 kV cable termination stations in the Hill Avenue area on the north side of Highway #1 would be relocated to the east of the existing ones, next to the north side of the freeway.

We consulted with the:

- *City of Burnaby,*
- *Ministry of Environment, Lands and Parks;*
- *Ministry of Transportation and Highways; and*
- *Greater Vancouver Regional District*

to select the location for the new terminal stations. It was chosen from five possible alternatives as the option with the least impacts.

The new cable terminals will be more compact, fenced like the existing structures, and surrounded by shrubs.



proposed new location of cable terminals

The proposed work will include the following (To view locations see aerial print.):

1 Construct alternate public use trail

Construction of the new facility will require rerouting the present trail away from the cable termination area.

A possible route for the new trail could:

- branch off from the existing trail in the area of the GVRD watermain,
- travel to the north of the existing terminal structures and steel transmission tower , and
- head south to rejoin the existing trail paralleling the freeway east of the construction area.

2 Seismicaly reinforce the cable terminal sites

This work will include strengthening the ground where the new terminal sites will be constructed. This work will consist of:

- .crease density of the soil to improve stability, and
- placement of a crushed rock surface.

The crushed rock surface would have a final grade at the same level or slightly higher than the surrounding ground.

3 Replace the existing cable ducts

The existing 230kV cable ducts exit the terminal sites on the west side and then cross under the freeway about 170 metres to the west of the existing site.

The new ducts would be installed by directional drilling under the freeway directly from the new site to a location on the BC Hydro right of way on the south side of the freeway.

This drill hole would be at about 12 to 15 metres below the existing freeway, GVRD watermain, and the creek.

4 Construct two manholes

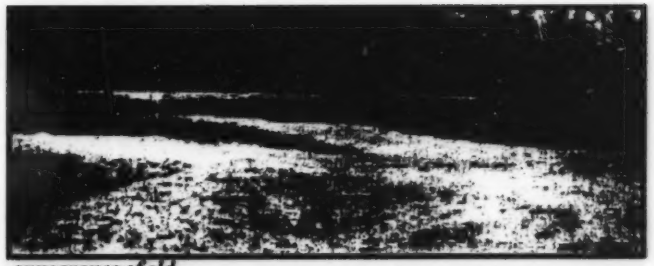
Manholes would be constructed at each end of the drill hole. The new manhole on the south side of the freeway will connect the new ducts to the existing ducts.

5 Construct the new Cable Terminal Stations

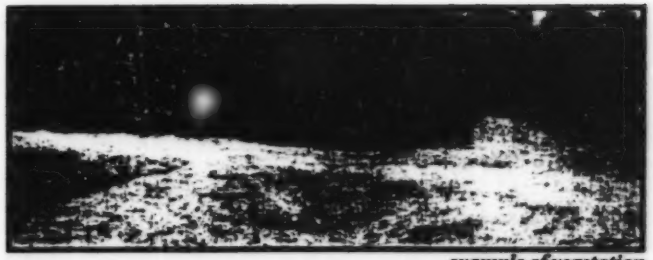
The new cable terminals will be built, seismicaly reinforced, and a fence will be built around the installation.

6 Remove the existing Cable Terminal Stations

Once the new cables are energized the existing terminals will be removed and the site restored.



appearance of old termination station



example of vegetation planted around a station

7 Landscape the new installation

Upon completion of the new installation, shrubs will be planted around the new location to minimize visual impacts in the Park.

Comparison Of Alternative Access Options

3 options for accessing the Hill Avenue Cable Terminal Station area for construction purposes have been identified.

These are:

1. *Access from Highway #1.*
2. *Access through the park and then along BC Hydro right of way from the east off Avalon Ave. (Due to the environmental impacts, option #2 was identified as the least preferred.)*
3. *Access along the existing BC Hydro right of way from the west off Glencarin Drive.*

The following considerations associated with these alternatives:

Access from Highway #1

An existing access exists through a locked gate off the west bound lanes of the freeway. This access does not have a proper on or off ramp and requires that vehicles make a relatively sharp turn once off the freeway. Issues associated with upgrade of this access include:

- On and off ramps would need to be constructed. These would have a combined length of approximately 700 metres and would require additional fill on the north side of the existing highway over the GVRD watermain, and the creek. There may be a potential for damage to the watermain.
- A night time construction of the ramps (similar to the current HOV lanes project) would be necessary to minimize impact on the freeway traffic. It is estimated that the cost of this option could be approximately up to $ 500,000 higher than upgrading the existing access road along the BC Hydro right of way.
- Highway safety issues are a significant concern (over 130,000 vehicles pass the site every 24 hours).

Details of access upgrade through Burnaby Park (west or east access)

The existing roads would need to be widened to about 5 metres and resurfaced with gravel to allow the use of the roads for heavy truck and equipment traffic. Geogrid (ground protecting separator sheets) would be used to reinforce the base of the road and to allow removal of the gravel.

The drainage or stream crossings would be rebuilt with box culverts or bridges.

To reduce any risk of damage to the GVRD watermain, a new bridge over the watermain would be necessary at this location (west access only).

Access from the East on Avalon Ave.

This is the least favoured option due to the high impacts on the park:

- Disruption and/or inconvenience to pedestrian and horse traffic along the Avalon Trail.
- Large areas of peat would require major strengthening, resulting in impacts which could not be mitigated.
- Ten streams and/or drainage crossings would be impacted.
- There is a remnant bog in the area that is the most sensitive zone in the park.

Access from the west along B.C. Hydro right of way

- Disruption and/or inconvenience to pedestrian and horse traffic along the Freeway Trail.
- Increased truck traffic on Glencarin.
- Sections where soils are soft (peat) would require some filling and some settlements are likely to occur from these additional fills.
- Seven streams and/or drainage crossings would be impacted.

Please join us for coffee and a chat!

Information Open House
Hill Ave. Cable Termination Replacement Project

Monday, July 27, 1998, 4 - 8 p.m.
Bill Copeland Recreation Centre

In order to ensure that impacts to local residents and recreational users of Burnaby Lake Park are minimized, we are seeking your input on the following aspects of this project:

- Review the construction access route options
- Contribute your views for the social and environmental management plans
- Provide input for minimizing construction impacts

We look forward to seeing you there and hearing your views.

For more information, please contact Jane Newlands, at 528-7985 or by email to jane.newlands@bchydro.bc.ca

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Shared Services
Property Services Department
Property Rights Management
Phone: (604) 623-4291
Fax: (604) 623-3988

October 21, 1999

Dear Resident:

Subject: BC Hydro Cable Replacement Project

Attached is an information sheet from BC Hydro regarding a proposed project to improve reliability of electricity service to customers in central Burnaby. The project involves the replacement of two 230 kv underground cable circuits contained within the BC Hydro right of way that runs adjacent to or passes through your property.

As an initial stage in preparing for this project a ground profile survey is required to update data on the two underground circuits. The majority of the survey will be carried out on BC Hydro owned right of way, however, the survey crew will require access to some properties in the vicinity of or bordering on Canada Way.

BC Hydro will make every attempt to ensure this survey is as non-intrusive as possible. More information on this project and opportunities for public input will be available over the next few months.

If you have any questions regarding this work please call me at 623-4291 (in the event that I am out of the office, please leave a message and your call will be returned).

Yours truly,

L. Biggs

Len Biggs
Property Representative

Vince Masek
Project Manager
2L39 and 2L40 Cable Replacement Project
Telephone: (604) 528-2874
Fax: (604) 528-2037

October 25, 1999

Mr./ Mrs.,
Title
Address
City, BC
Postal Code

Dear

Re: 230 kilovolt (kV) Cable Replacement Project

B.C. Hydro is proceeding with the replacement of two underground 230 kV cable circuits and the relocation of existing cable termination stations at Hill Avenue. This work is being undertaken to increase service reliability for our customers in central Burnaby.

Detailed information on the work required and proposed schedule is provided in the attached information sheet. Construction access to the Hill Avenue terminal site is one of the key issues related to the project. Due to traffic safety concerns, access from Highway No. 1 will be limited to periods between 12:00am and 5:00am. Therefore, an existing access road will need to be upgraded along the north side of Highway No. 1.

In the month of October, Hydro will commence surveying the existing cable ductbanks and begin preparing more detailed plans for the project. These plans will involve environmental impact management (including identification of mitigation options) and a construction impact management plan. These plans will be reviewed with local government, government agencies and the public this fall/winter prior to submission of our application to the British Columbia Utilities Commission (BCUC) for a Certificate of Public Convenience and Necessity (CPCN). Based on the current schedule, the application is planned to be submitted to the BCUC in early 2000.

We will be contacting you again this fall to get your input on these plans. If you have any questions or would like more information, please contact Jane Newlands at (604)528-7985.

Sincerely,

Vince Masek
Project Manager

Reliability Improvements
In Central Burnaby

Cable Replacement

BC Hydro is proceeding with the replacement of two 230 kilovolts (kV) underground cable circuits between Newell Substation at Kingsway and Griffiths and the Hill Avenue Cable Terminal Stations located east of Hill Avenue between Highway No. 1 and Burnaby Lake.

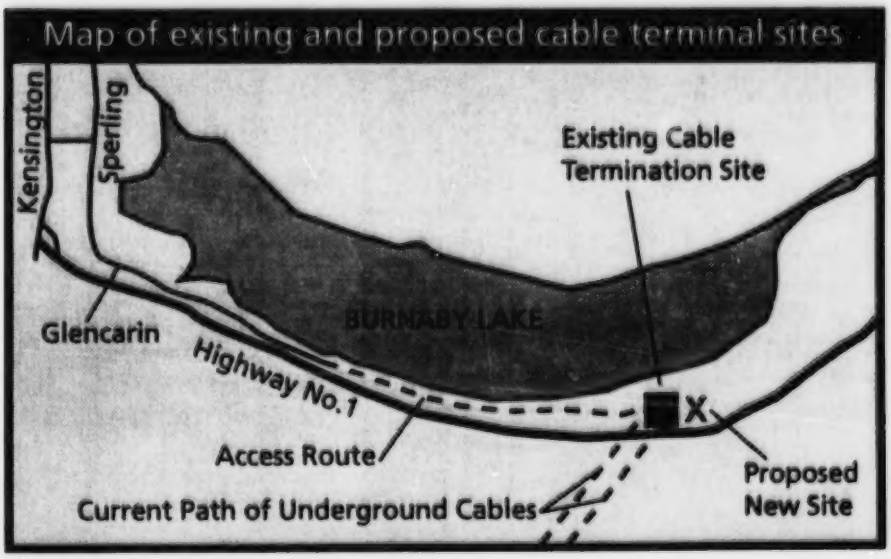
This cable system was installed in 1957 and needs to be upgraded to maintain service reliability for our customers in central Burnaby.

Description of Proposed Work

The project is planned in stages between 2000 and 2002.

It will involve:

- Upgrading existing access along the BC Hydro right of way from Glencarin Drive to the Hill Avenue Cable terminal site.
- Upgrading portions of the existing access along the BC Hydro right of way between Highway No.1 and Newell Substation.
- Removing existing cable terminal stations at Hill Avenue and replacing them with a new compact station immediately east of the existing ones.
- Installing new cables in the existing underground ductbanks from Newell Substation, to the south of Highway No.1. New ducts under Highway No.1 will be installed using directional drilling to the terminal site on the north side.



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Work to upgrade the access road is tentatively scheduled for the summer of 2000. The first circuit is scheduled for replacement in summer 2001, and the second to follow in 2002. The new cable terminal station will be constructed with improved earthquake resilience and environmental protection facilities. Once construction is complete, BC Hydro will restore the site and provide some vegetation screening of the station.

We are currently working with the City of Burnaby, Ministry of the Environment, Lands and Parks, Ministry of Transportation and Highways, and the Greater Vancouver Regional District to address the project issues, and will be seeking public input, particularly on the social and environmental aspects of the project.

Prior to the commencement of the work, BC Hydro will complete environmental and construction management plans to ensure that all environmental concerns have been addressed. Local residents and users of Burnaby Lake Park will be invited to consultation sessions to review the project plans. This input and feedback will help us to minimize the disruption to the community and recreational users of Burnaby Lake Park during the construction phase.

For more information please contact
Jane Heylands
BC Hydro Community Relations Manager
Tel (604) 528 7985
Fax (604) 528 2362
E-mail jane.heylands@bchydro.com

www.bchydro.com

A99-29 October 1999